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(इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके)

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office Relating to Patents and Designs]

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Calcutta, the 18th June 1988

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APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 11th May 1988

379/Cal/88. (1) Leonard J Rautenberg (2) Milton M Gilbert (3) James H. Wyner (4) Daniel M. Wyner. Elastic, Laminated, water-proof, moisture-permeable fabric.

380/Cal/88. Aluminium Pechiney. Device and process for closing off the partitions of a chamber ring furnace for firing carbonaceous blocks.

381/Cal/88. Lanxide Technology Company LP. Metal Matrix composites.

382/Cal/88. Ashok Pandey. Mud proof hawai slipper.

The 12th May 1988

383/Cal/88. B. J. Harris Oxford Limited. Staging. (Convention dated 13-5-1987, 26-3-1988 & 26-3-1988) U. K.

384/Cal/88. Degussa Aktiengesellschaft. Holding elements made of graphite for the heating elements in the industrial furnaces.

385/Cal/88. The Scopas Technology Company Inc. Hydrophilic crystalline, microporous silaceous materials of regular geometry. [Division dated 19th December, 1984].

386/Cal/88. Om Chandra Kafley. Process for the manufacture of cold drink of tea "Sital Tea".

The 13th May 1988

387/Cal/88. Hitachi Construction Machinery Co. Ltd. Flow control valve apparatus.

388/Cal/88. Serge Ladriere. Improvements to piercing projectiles.

389/Cal/88. Kumar Krishna Rohatgi. A led (light emitting diode) indicator.

390/Cal/88. Norsolor. Catalyst and process for the demerization of propylene to 4-methyl-1-pentene.

The 16th May 1988

391/Cal/88. Westinghouse Electric Corporation. Improvements in or relating to vacuum interrupter with ceramic enclosure.

392/Cal/88. Krone Aktiengesellschaft. Device for holding connector banks in telecommunication systems.

393/Cal/88. Degussa Aktiengesellschaft. Aqueous stable suspension of water-insoluble silicate capable of binding calcium ions, and use of the suspension for the preparation of detergents and cleaning agents.

394/Cal/88. Prof. Dr. Ing. Robert Massen. Method and arrangement for measuring and/or monitoring properties of yarns or ropes.

395/Cal/88. Korea Advanced Institute of Science and Technology. A process for the preparation of 3-(4'-bromo-biphenyl-4-yi) Tetrahn-1-one.

The 17th May 1988

396/Cal/88. E. I. Du Pont De Nemours and Company. Improved polyethylene pulp.

397/Cal/88. Stopinc Aktiengesellschaft. A procedure for the introduction of circulation gas into a spout opening of Metallurgical containers having a slide lock.

398/Cal/88. Pennwalt Corporation. Preparation of Alkanedisulfonic acids.

ALTERATION OF DATE

162600.
(841/Cal/87)

Ante dated to 6th July, 1984.

162617.
(8/Cal/88)

Ante dated to 6th January, 1984.

162630.
(753/Del/85)

Ante dated to 8th June, 1982.

162640.
(17/Bom/87)

Ante dated to 20th July, 1987.

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CLASS : 172-C$_3$: 9-F. 162591

Int. Cl. : D 01 g 9/00.

A SPINNING PREPARATION SYSTEM AND AIR-CONDITIONING THE SAID SYSTEM.

Applicant : TRUTZSCHLER GMBH & CO. KG., DUVENSTRASSE 82-92, D-4050 MONCHENGLADBACH 3, WEST GERMANY.

Inventor : 1. AXEL THANNHEISER.

Application No. 934/Cal/83 filed July 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

27 Claims

A spinning preparation system and air-conditioning the said system which is composed of a plurality of different types of fiber processing machines that are disposed in at least one room in a spinning plant and that are connected sequentially together by means for transporting fiber in order to sequentially perform a plurality of different processes on the fiber, each processing machine of the sequence having a fiber-carrying region, wherein conditioned air leaving an air-conditioning system enters the spinning preparation system, the improvement comprising providing means for introducing conditioned air from the air-conditioning system directly into the fiber carrying region/s of more than one fiber processing machine of the sequence, without first calculating the conditioned air through said at least one room.

Compl. Specn. 20 pages. Drgs. 5 sheets.
CLASS : 62-C$_2$. 162592

Int. Cl. : D 06 p 5/00.

A METHOD OF PRODUCING ACRYLONITRILE-BASE IN-LINE DYED FIBERS.

Applicant : SNIA FIBRE S.p.A., OF VIA FRIULI 55, CESANO MADERNO, PROVINCE OF MILANO, ITALY.

Inventors : 1. GIORGIO CAZZARO, 2. ANTONINO CAVALLARO, 3. GIANMARCO DEL FELICE, 4. GIANFRANCO CASAGRANDE.

Application No. 1600/Cal/83 filed December 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A method of producing acrylonitrile-base in-line dyed fibres, in a gel state, characterized in that it comprises essentially the steps of extruding the spinning dope in a coagulum bath containing a solvent as herein described, stretching the resulting filaments, scrubbing said filaments to remove residual solvent, passing through the thusly obtained filament tow a dyeing bath as herein described at an overall flow rate in excess of $4cm^3$ bath per second per cm^2 of tow surface area, said overall flow rate being provided by several crossflows directed transversely to the direction of advance of said tow and being alternately directed to and from said tow, said tow being kept in said dyeing bath for a residence time not exceeding 5 seconds, subjecting the dyed tow to a heat treatment for fixing the dyestuff, and then, in a manner known per se, scrubbing, finishing and drying the resulting fiber.

Compl. Specn. 17 pages. Drg. Nil.

CLASS : 195-D. 162593

Int. Cl. : F 16 k 31/02, 31/08.

SOLENOID VALVE.

Applicant : SEALED POWER CORPORATION, OF 100 TERRACE PLAZA, MUSKEGON, MICHIGAN 49443, UNITED STATES OF AMERICA.

Inventor : 1. FRANK G. WARRICK.

Application No. 446/Cal/84 filed June 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A normally open three way solenoid valve comprising a housing including a first transverse wall of magnetic material :

a first axial extension extending from said transverse wall in one direction in engagement therewith,

a peripheral wall of magnetic material extending axially in the opposite direction from the periphery of said transverse wall in engagement therewith,

a second transverse wall of magnetic material extending radially outwardly into engagement with the peripheral wall of said housing,

a center pole of magnetic material extending axially from said second transverse wall within said peripheral wall of said housing,

said center pole including a second axial extension of magnetic material extending in the opposite direction from said axial extension of said housing,

said transverse wall, peripheral wall and center pole defining a space,

a coil positioned in said space surrounding said pole,

said second extension and first transverse wall including said first axial extension having an axial opening,

the end of the center pole within said housing defining a first seat,

a non-magnetic insert provided in the axial opening in said first axial extension of said housing defining a second seat and having an opening,

said first transverse wall and said first axial extension defining a cavity,

a ball of magnetic material interposed between said first and secnd seats and having limited axial movement between said seats,

the major portion of said ball extending into said cavity adjacent said second seat in said first axial extension,

said coil having portions spaced from the periphery of said center pole and defining a passageway,

a circumferential groove at the area of juncture of said centre pole and transverse wall of said centre pole, said groove facing axially toward said passageway and communicating with said passageway,

and a plurality of circumferentially spaced axial passages radially outwardly from said passageway at a distance such that the passages do not intersect said passageway, said passages intersecting said groove thereby providing communication with said passage, . said passages extending from said groove to the exterior of said second axial extension such that when fluid is applied through the axial opening of said center pole and the coil is de-energized, fluid forces the ball against the second seat of said first axial extension and fluid flows through the axial opening of said second axial extension past said first seat about the pole to the annular groove through passageway and thereafter outwardly through the passages, and when the coil is energized, the ball is drawn toward the pole to seal against the first seat and permit flow through the axial opening of said first axial extension about the ball and the periphery of the pole and through the passagees.

Compl. Specn. 14 pages. Drg. 1 sheet.

CLASS : 36-A. 162594

Int. Cl. : F 04 d 27/02.

COMPRESSOR SURGE CONTROL SYSTEM.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. DONALD JOSEPH DZIUBAKOWSKI, 2. MARION ALVAH KEYES, 3. JEREMIAH JOHN SHAFFER.

Application No. 457/Cal/84 filed June 29, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A surge control system for a centrifugal compressor having an associated surge line and a bypass line comprising :

first means for establishing a main surge control line a predetermined distance from the compressor surge line and identifying a point thereon;

second means for establishing a feed forward control signal of a process variable which may cause a surge condition in the compressor;

summing means for combining the signals of said first and second establishing means to provide an anticipatory surge control line offset from the main surge control line of said first means in proportion to the magnitude of the signal from said second means and a control signal indicative thereof; and

bypass valve control means connected to said summing means for varying the amount of bypass acroos the compressor in response to the control signal therefrom.

Compl. Specn. 11 pages. Drgs. 2 sheets.

CLASS : 9-D. 162595

Int. Cl. : C 22 c 39/30, 39/32.

PROCESS FOR THE PRODUCTION OF FERROMANGANESE.

Applicant : FRIED. KRUPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF ALTENDORFER STRASSE 103, D-4300, ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. KLAUS ULRICH, 2. WILHELM JANSSEN, 3. DIETER NEUSCHUETZ, 4. THOMAS HOSTER, 5. HERMANN DOERR, 6. DIETRICH RADKE.

Application No. 850/Cal/84 filed December 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

process for the production of ferromanganese with a carbon content of from 0.05 to 8% from iron-containing manganese ore by heating a mixture of said manganese ore, solid carbon-containing fuel and slag-forming constituents in a rotary kiln, and subsequently melting ferromanganese from the reaction product that is removed from the rotary kiln and cooled down, comprising :

(a) forming a mixture of iron-containing manganese ore, coal and slag-forming constituents, in which the ore-coal ratio is from 1 : 0.4 to 1 : 2, the slag-forming constituents originated from the ore and the coal such as CaO, MgO, Al_2O_3 and SiO_2, with separate slag-forming constituents CaO and/or MgO and/or Al_2O_3 and/or SiO_2 being added to the mixture if necessary in such a quantity, that in the final slag including the constituents of the ore, the coal and the added fluxes, a $(CaO + MgO)/(Al_2O_3 + SiO_2)$ ratio exists of from 1 : 0.3 to 1 : 4, and the Al_2O_3/SiO_2 ratio amounts to 1 : 0.3 to 1 : 9;

(b) heating the mixture in the rotary kiln from 20 to 240 minutes in a CO-containing atmosphere at a temperature of from 1200 to 1350°C to form a reaction product and removing the reaction product from the rotary kiln;

(c) crushing the reaction product removed from the rotary kiln to a particle diameter of less than 15 mm;

(d) separating the crushed reaction product by density separation into a coal-containing fraction which is reintroduced into the rotary kiln, at least one metal-containing slag-rich fraction and an alloy fraction to be delivered to a melting furnace; and

(e) melting the alloy fraction in a melting furnace at temperatures of from 1400 to 1600°C.

Compl. Specn. 24 pages. Drg. 1 sheet.

CLASS : 9-D. 162596

Int. Cl. : C 22 c 38/18.

PROCESS FOR THE PRODUCTION OF FERROCHROMIUM.

Applicant : FRIED KRUPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF ALTENDORFER STRASSE 103, D-4300, ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. KLAUS ULRICH, 2. WILHELM JANSSEN, 3. DIETER NEUSCHUFTZ, 4. THOMAS HOSTER, 5. HERMANN DOERR, 6. DIETRICH RADKE.

Application No. 851/Cal/84 filed December 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

Process for the production of ferrochromium with a carbon content of from 0.02 to 10% from iron-containing chromium ore by heating a mixture of chromium ore, solid carbon-containing fuel and slag-froming constituents in a rotary kiln and subsequently melting ferrochromium from the reaction product that is removed from the rotary kiln and cooled down, comprising :

(a) forming a mixture of chromium ore, coal and slag-froming constituents, in which the ore-coal ratio is from 1 : 0.4 to 1 : 2, the slag forming constituents originated from the ore and coal such as CaO, MgO, Al_2O_3 and SiO_2, with separate slag. forming constituents CaO and/or MgO, Al_2O_3 and/or SiO_2 being added to the mixture if necessary in such a quantity, that in the final slag including the constituents of the ore and coal and the added fluxes a $(CaO + MgO)/(Al_2O_3 + SiO_2)$ ratio exists of from 1 : 1.4 to 1 : 10, and the Al_2O_3/SiO_2 ratio amounts to 1 : 0.5 to 1 : 5;

(b) heating the mixture in the rotary kiln from 20 to 240 minutes in a CO-containing atmosphere at temperature of from 1480 to 1580°C to form a reaction product and removing the reaction product from the rotary kiln;

(c) crushing the reaction product removed from the rotary kiln to a particle size of less than 25 mm;

(d) separating the crushed reaction product by density separation and/or magnetic separation into a coal-containing fraction which is reintroduced into the rotary kiln, at least one metal-containing slag-rich fraction and an alloy fraction to be delivered to a melting furnace; and

(e) melting the alloy fraction in a melting furnace at temperatures of from 1600 to 1700°C.

Compl. Specn. 31 pages. Drg. 1 sheet.

CLASS : 206-E. 162597

Int. Cl. : B 01 p 3/00.

AN ELECTRONIC OPTICAL SENSOR ARRANGEMENT.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : 1. WILLIAM LEE THOMPSON.

Application No. 196/Cal/85 filed March 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An electronic optical sensor arranged comprising :

light-emitting means;

light-detecting means;

light-connection means connected between said light-emitting means and said light-detecting means for varying an attenuation of light from said light-emitting means to said light-detecting means according to a variable to be measured;

pulse generator means connected to said light-emitting means for applying low-duty cycle, high-current pulses to said light-emitting means for generating low duty cycle light pulses which are transmitted to said light-detecting means for generating detected pulses;

sample and hold means having an input connected to said light-detecting means for sampling said detected pulses and for holding a peak value for each pulse at an output of said sample and hold means;

feedback means connected between said input and said output of said sample and hold means for returning a signal from the said output to said input immediately after each low duty cycle high current pulse of said pulse generator means to suppress said detected pulses after each low-duty cycle, high-current pulse; and

square wave generator means connected to said sample and hold means for forming a square wave signal corresponding to the variable to be measured.

Compl. Specn. 13 pages. Drgs. 3 sheets.

CLASS : 70-A. 162598

Int. Cl. : B 01 k 1/00.

CONSTANT VOLUME LITHIUM BATTERY CELL AND PROCESS FOR MAKING SAME.

Applicant : MOLI ENERGY LIMITED, AT 3958 MYRTLE STREET, BURNABY, BRITISH COLUMBIA, CANADA V5C 4G2.

Inventors : 1. JAMES A. R. STILES, 2. KLAUS BRANDT, 3. DAVID S. WAINWRIGHT, 4. KEITH C. LEE.

Application No. 555/Cal/85 filed July 29, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

A battery cell, comprising a substantially fixed volume container containing cell components therein in voltaic relationship, said cell components including an anode comprising lithium metal, a non-aqueous electrolyte, and a cathode in a spatial relationship to the anode within the fixed volume container, said cathode comprising cathod active material which upon discharge intercalates lithium and undergoes a phase transition to a distinct structural phase in which phase the cathode active material can reversibly operate, and which phase provides a cathode expansion greater than the anode volume decrease upon discharge, wherein the interrelationship between said spatial relationship and said cathode expansion within said substantially fixed volume are such that there will be produced a sufficient compressive load on the anode to inhibit the formation of a porous deposit of exterior, irregularly oriented, amalgamated lithium grains on the anode when the cell is reversibly operated with the cathode in said phase.

Compl. Specn. 21 pages. Drgs. 4 sheets.

CLASS : 47-C. 162599

Int. Cl. : C 10 b 25/16.

IMPROVED COKE OVEN DOOR, AND COKE OVENS HAVING SUCH IMPROVED DOORS.

Applicant : METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED (A GOVERNMENT OF INDIA UNDERTAKING) AT DORANDA, RANCHI-834 002, BIHAR, INDIA.

Inventors : 1. GOPALAN NAIR VENUGOPAL, 2. T. R. SAMPATKUMAR, 3. N. RAJEEVA BABU, 4. MANOHAR LAL SETHI.

Application No. 423/Cal/86 filed June 5, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Improvement in coke oven door of the type as hereinbefore described, characterised in that a flexible metallic packing, such as, steel wire rope, is securely provided continuously along the outside of the sealing frame of the door body such that the said metallic packing defines a leak-proof point with the sealing surface of the door frame, in assembly.

Cmpl. Specn. 8 pages. Drgs. 3 sheets.

CLASS : 206-E. 162600

Int. Cl. : H 03 k 19/00.

A CHILLED WATER SYSTEM HAVING A CENTRIFUGAL COMPRESSOR AND AN INTEGRATED CONTROL SYSTEM.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA, 70160, UNITED STATES OF AMERICA.

Inventors : 1. LARRY ENTERLINE, 2. AZMI KAYA.

Appication No. 841/Cal/87 filed October 27, 1987.

Division of application No. 480/Cal/84 dated 6th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A chilled water system having a centrifugal compressor and an integrated control system for simultaneously controlling both the load output and surge protection of the compressor, characterised in that the integrated control system comprises :

compressor control logic means for establishing a first control signal indicative of desired compressor load output;

compressor surge control logic means for establishing a second control signal indicative of required flow bypass across the compressor; and

coordinating control logic means for establishing a bias signal to said first control signal which bias signal is related to said second control signal.

Compl. Specn. 13 pages. Drgs. 3 sheets.

CLASS : 32 B. 162601

Int. Cl. : C 07 C 1/00.

"A PROCESS FOR MANUFACTURING OLEFINS".

Applicant : INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATEEN OF 4, AVENUE, DE BOIS PREAU, 92502 RUEIL MALMAISON, FRANCE.

Inventors : ROBERT STERN, GERARD HILLION.

Application for Patent No. 627/Mas/84 filed on 22nd August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

6 Claims

A process for manufacturing olefins comprising contacting a linear carboxylic acid or a carboxylic ester such as herein before described with a caralyst at a temperature from 200 to 400°C in the presence of hydrogen, wherein the catalyst contains nickel and at least one metal from the group consisting of tin, germanium and lead and a sulfure, phosphorous or arsenic compound and the ratio of the metal from the said group and nickel is from 0.001 : 1 to 10 : 1, and separating the olefins by any known manner.

The olefins prepared according to this inventions are useful for preparing polymers and for manufacturing alkyl aromatics.

Compl. Specn. 15 pages.

CLASS : 80 G. 162602

Int. Cl.[4] : B 01 D 37/00.

"A PROCESS OF RECOVERING ELEMENTAL PHOSPHORUS VALUES FROM PHOSPHORUS CONTAINING SLUDGE".

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06881, UNITED STATES OF AMERICA; A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF DELAWARE, U. S. A.

Inventors : 1. DAVID LEE DODSON, 2. BRUCE DOUGLAS PATE, 3. PHILIP CONRAD ROGERS.

Application for Patent No. 651/Mas/84 filed on 27th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

8 Claims

In a process of recovering elemental phosphorus values from phosphorus-containing sludge the improvement comprising in combination the steps of :

(a) sizing the solids content of phosphorus-containing sludge to obtain a particle size of not greater than 6,385 microns as well as homogenizing the resulting filter feed stream to obtain a consistent filter feed;

(b) passing the said homogenised phosphorus containing sludge at a temperature of between 45°C to 100°C from step;

(c) through a known thin cake filter medium having a pore size less than 2 microns at a pressure ranging from 3.5 to 21 kg/Cm^2 to produce a filtrate high in elemental phosphorus values; and

(d) recovering the elemental phosphorus values from the filtrate in any known manner.

Compl. Specn. 14 pages. Drg. 1 sheet.

CLASS : 80 F, I. 162603
131 A.2.

Int. Cl.^{4} : E 21 c 7/10.

B 01 O 33/00, 35/00.

AN APPARATUS FOR REJUVENATING CONTAMINATED EARTH CUTTINGS FROM DRILLING MUD.

Applicants & Inventor(s) : HERMAN J. SCHELLSTEDE, 342 Duperier Avenue New Iberia, Louisiana 70560, U. S. A. and JAMES F. YOUNGBLOOD, of 196 Old Bridge Lake, Houston, Texas 77069, U. S. A. both U. S. Nationals.

Application No. 710/Mas/84 filed on September 18, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

25 Claims

An apparatus for rejuvenating contaminated earth cuttings from drilling mud which includes a liquid mud constituent and solid particles constituent, the apparatus comprising :

(a) a filter member for filtering mud comprising an endless filter member;

(b) a mud infeed apparatus for depositing a mixture of cuttings and drilling mud on said moving filter member;

(c) a suction apparatus for drawing the drilling mud from said mixture through said filter means to separate said earth cuttings from said drilling mud liquid constituent and solid particles constituent to provide rejuvenated mud;

(d) a receiving housing for receiving said rejuvenated mud drawn through said filter means; and

(e) a delivery pump for delivering rejuvenated mud from said receiving housing to a well reuse of said rejuvenated mud.

Compl. Specn. 46 pages. Drgs. 14 sheets.

CLASS : 49 H, 6 A 2. 162604

Int. Cl.^{4} : F 25 J-3/04.

B 01 D-53/04.

A METHOD AND A CYCLIC APPARATUS FOR OBTAINING ENRICHED OXYGEN EFFLUENT PRODUCT BY SELECTIVE ADSORPTION OF NITROGEN FROM AN AMBIENT AIR FEEDSTREAM.

Applicant : AIR PRODUCTS AND CHEMICALS, INC. OF P. O. BOX 538, ALLENTOWN, PA 18105, U. S. A. A DELAWARE CORPORATION.

Inventor : WILLIAM R. KOCH.

Application No. 728/Mas/84 filed on September 24, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) The Patent Office, Madras Branch.

10 Claims

A method of obtaining enriched oxygen effluent product by selective adsorption of nitrogen from an ambient air feed stream in a cyclic system characterized by passing in a controlled manner ambient air previously freed of contained water and CO through a bed of solid adsorbent such as herein defined selective in retention of nitrogen as opposed to oxygen, with resulting production of an oxygen-enriched gaseous effluent which is withdrawn from said bed and collected in a first receiver, monitoring the pressure level or height level of the oxygen enriched effluent product in the first receiver, stopping the feeding of air when preset pressure of hight level is reached in the first receiver; rinsing in a controlled manner the nitrogen laden bed with a stream of nitrogen gas withdrawn from a second receiver; desorbing the nitrogen laden bed by application of vacuum thereto and passing the desorbed nitrogen into the second receiver; monitoring the pressure level or height level of the nitrogen in the second receiver, stopping the rinsing of the nitrogen laden bed when a preset pressure or height level is reached in the second receiver; repressuring the absorbent bed with a portion of said oxygen-enriched gaseous effluent.

Compl. specn. 25 pages. Drgs. 2 sheets.

CLASS :179 A. 162605

Int. Cl.^{4} : B 67 B 5/00.

"ONE PIECE PLASTICS CLOSURE FOR A CONTAINER."

Applicant : METAL BOX p.l.c. A BRITISH COMPANY OF QUEENS HOUSE, FORHURY ROAD, , READING RG1, 3JH, BERKSHIRE, ENGLAND.

Inventor : THOMAS DUNCAN BROWNBILL.

Application for Patent No. 803/Mas/84 filed on 26th October 84.

Convention date on 29th October, 1983./No. 83 28 954/(U. K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras-600 002.

7 Claims

A one-peice plastics closure for a container having a mouth-defining free end surface and a side surface, the closure having a closure panel, a skirt attached around the periphery of the closure panel; and an annular sealing member located adjacent the junction of the closure panel and the skirt and attached by an integral hinge allowing pivotal movement of the sealing member, the sealing member having a first portion located for engagement with the free end surface of a said container when the closure is fitted on the container, and a second portion located so as in response to such engagement of the first portion by the

container to be urged into engagement with the side surface of the container and thereby form a side seal for the container.

Compl. specn. 12 pages. Drgs. 2 sheets.

CLASS : 140 B 2. 162606

Int. Cl.[4] : E 21 B 43/00.

A METHOD OF RECOVERING OIL BY FORMING A BARRIER OF FLUID ALONG A PREDETERMINED SURFACE OF A GEOLOGICAL FORMATION.

Applicant : INSTITUTE FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4, AVENUE DE

Inventor :CLAUDE GADELLE, HERVE PETIT.

Application No. 931/Mas/84 filed 29 November, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

15 Claims

A method of recovering oil by forming a barrier of fluid along a predetermined surface of a geological formation having an elongate shape, the direction of elongation of this surface, or main direction being distinct from the vertical characterised in that the said fluid is injected from at least one injection zone of at least one drain passing through said formation, said injection zone being sloping with respect to the vertical and belonging substantially to the surface of the barrier to be formed, said at least one drain being drilled from the surface and in that the oil is recovered from said geological formation.

Compl. specn. 16 pages. Drgs. 3 sheets.

CLASS : 129 Q. 162607

Int. Cl.[4] : A 61 F 9/06.

A CHIN-OPRABLE WELDING SHIELD.

Applicant & Inventor : RANGASWAMY DEVARAJ, 16 RAJA STREET, KOLAPPALUR P. O., GOBI (VIA) 638 456, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 3/Mas/85 filed 1 January 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

2 Claims

A chin-operable welding shield comprising a frame provided with a head grip having an adjustable band for fastening it sougly around the head, the frame having a pair of windows for normal visibility; a pair of fitter-glasses pivotable disposed over the windows, characterised in that the said filter-glasses are coupled to a spring loaded chin-operable member through known held and release actuating means such a herein described.

Compl. specn. 5 pages. Drg. 1 sheet.

CLASS : 60 C. 162608

Int. Cl.[4] : A 42 B 1/24.

"A COMBINED HAT AND ELECTRIC FAN."

Applicant and Inventors : COIMBATORE SUBRAMANIAM MEENAKSHISUNDARAM, C-12-81, LUZ CHURCH ROAD, MADRAS 600 004, TAMIL NADU, INDIA, INDIAN NATIONAL, AND 2. NARAYANAN CHETTIAR NARAYANAN, PLOT NO. 20 VENKATESWARA COLONY, NANDANAM EXTENSIONS, MADRAS 600 035, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application for Patent No. 322/Mas/85 filed on 29tht April 85.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

3 Claims

A combined hat and electric fan charactrised by a solar panel comprising solar voltaic cells externally mounted on the crown thereof; at least one electric fan fixed externally to the brim of the hat and exposed to the wearer through an aperture therein, a cell or battery fixed to the interio of the hat; and a changeover switch connecting (i) the sola panel to the fan or (ii) the cell or battery to the fan.

Compl. specn. 5 pages. Drg. 1 sheet

CLASS : 32-F. 2(b). 162609

Int. Cl.[4] : C 07 D 471/12.

PROCESS FOR THE PREPARATION OF OCTAHYOROINDOLO (2, 3-a) QUINOLIZIN-1-YL-ALKANE CARBOXYLIC ACID AMIDES.

Applicant : RICHTER GEDCON VEGYESZFLI IYAR. RT., OF GYOMROI UT 19-21, BUDAPEST X., HUNGARY, A COMPANY EXISTING UNDER THE LAWS OF HUNGARY.

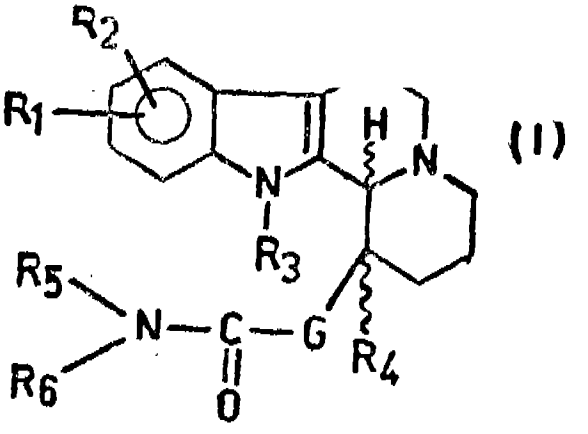
Inventors : (1) FERENC SOTI (2) CSABA SZANTAY (3) MARIA INCZE (4) SZUZSANNA BALOGH NEE KAROS (5) ELEMER EZER (6) JUDIT MATUZ (7) LASZLO SZPORNY (8) GYORGY HAJOS (9) CSABA KUTHI.

Application No. 783/Mas/85 filed October 4, 1985.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) The Patent Office Madras Branch.

4 Claims

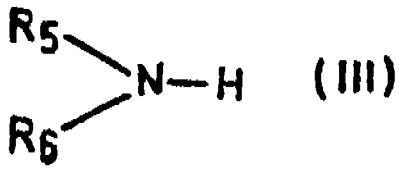
A process for the preparation of the new 1, 2, 3, 4, 6, 7, 12, 12b-octahydroindolo [2, 3-a] quinolizin-1-alkane-carboxylic acid amides of the general formula (I) of the accompanying drawings,



wherein

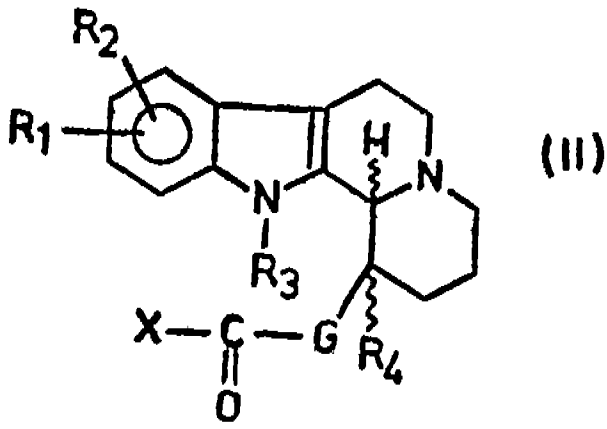
R_1 and R_2 stand independently for a hydrogen or halogen atom, or a hydroxyl, nitro or C_{1-4} alkoxy group; R_3 and R_4 stand independently for a hydrogen atom or a C_{1-4} alkyl group; R_5 stands for a hydrogen atom, C_{1-4} alkyl group, omegahydroxy-C_{1-4} alkyl group or phenyl-C_{1-4} alkyl group; R_6 stands for a C_{1-8} alkyl group being optionally substituted by hydroxy

or C_{1-4} alkoxy; C_{3-8} alkenyl group phenyl orphenyl-C_{1-6} alkly being optionally substituted on their benzene ring by one halo, trihalomethyl, C_{1-4} alkyl, phenyl, C_{2-5} alkanoyl or hydroxy group or by one or two C_{1-4} alkoxy groups; naphthyl-C_{1-4} alkyl group, pyridyl group; pyridyl-C_{1-4} alkyl group; furyl-C_{1-4} alkyl group; or thienyl-C_{1-4} alkyl group; or R_5 and R_6 together form a C_{4-7} alpha, omega-alkylidene group, wherein one carbon atom may optionally be replaced by an oxygen or nitrogen atom and tho latter may carry a C_{1-4} alkyl group G means a C_{1-4} straight chained alkylene group, as well as their therapeutically useful acid addition salts, which comprises acylating an amine of the formula (III) of the accompanying drawings



(III)

wherein R_5 and R_6 are assdefined above with a compound o the general formula (II) of the accompanying drawings



(II)

wherein X stands for a hdroxy C_{1-4} alkoxy or C_{1-4} alkoxycarbonyloxy group, R_1, R_2, R_3, R_4 and G are as defined above, at a temperature of between—20°C and the reflux temperature in an inert organic solvent in the presence of a condensing agent, and if desired converting the thus-obtained compound of the general formula (I) into a therapeutically useful acid addition salt.

The compounds prepared according to this invention possess valuable therapeutic effect, eg. spasmolytic, vasodilatory, antianhythmic and gastrocytoprotective effect.

(Com.—86 pages; Drwgs.—one sheet)

162610

Int. Cl.[4] : A 01 G 1/04.

"A METHOD OF CULTURING MORCHELLA."

Applicant : NEOGEN CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF MICHIGAN, U. S. A. OF 620 LESHER PLACE, LANSING, MICHIGAN 48912, U. S. A.

Inventor : RONALD DEAN OWER, GARY LYNN MILLS, JAMES ANTHONYMALACHOWSKI.

Application for Patent No. 304/Mas/86, filed on 23rd April 86.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras-600 002.

33 Claims

A method of culturing ascocarps of aspecies of the genus Morchella comprising generating mature sclerotia by feeding mycelia of the species with a nutrient source, inducing the resulting nutrient-rich sclerotia into sexual reproductive growth cycle by removing the said nutrient source and adding the said sclerotia to excess of water to produce ascocarps of the species and recovering the ascocarps in a known manner.

Compl. specn. 23 pages. No Drg.

CLASS : 32-B. 162611

Int. Cl. : C 07 c 15/00.

METHOD OF EXTRACTING ANTHRACENE FROM ANTHRACENE-CONTAINING STRATING MATERIAL.

Applicant : UKRAINSKY NAUCHNO-ISSLEDOVATELSKY UGLEKHIMICHESKY INSTITUT, KHARKOV, ULITSA VESNINA, 7, USSR.

Inventors : 1. SVETLANA NIKOLAEVNA KIPOT, 2. ANNELIA ANATOLIEVNA ROK, 3. LARISA SEMENOVNA KUZNETSOVA, 4. DZHULIETTA NIKITICHNA DAVIDIAN, 5. NIKHAIL SEMENOVICH LITVINENKO, 6. MARIAN IVANOVICH RUDKEVICH, 7. OLGA IVANOVNA GONCHAR, 8. VIADIMIR RODIONOVICH VINNIKOV.

Application No. 803/Cal/83 filed June 29, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

An improved method of extracting anthracene from an anthracene-containing starting material such as anthracene fraction of coal tar, which comprises the steps of treating said anthracene-containing raw material with a solvent, such as white spirit at a temprature of 90° to 95°C, subsequently extracting an anthracene-carbazole mixture by counter current extraction with white spirit and substituted amide of the aliphatic acid such as N, N-dimethylformamide, extracting the final product from an extract to produce a mother liquor of white spirit, the solvent being pure white spirit mother liquor obtained after the separation of the final or the shite spirit mother liquor obtained after the separation of the final product.
product.

Compl. specn. 24 pages. Drg. 1 sheet.

CLASS : 172-D[4] f. 162612

Int. Cl. : D 03 d 3/00, 9/00, 13/00, 15/00.

DEVICE FOR AUTOMATICALLY DECTECTING FAULTS IN FABRICS AND SIMILAR TEXTILE SHEET-LIKE STRUCTURE.

Applicant : ZELLWEGER USTER LTD. WILSTRASSE 11, CH-8610 USTER, SWITZERLAND.

Inventor : 1. ROLF LF''ENBERGER, 2. CHRISTIAN HUNZIKER.

Application No. 1340/Cal/83 filed October 31, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A device for automatically detecting faults in articles, such as fabrics and similar textile sheet-like structures, by filtering an image of the article to increase the contrast betbeen the overall lecture of the article perceived as normal and the local deviations therefrom which are perceived as faults, characterized by means for optically scanning the surface of the article to form an image of the surface thereof; transforming means including at least two spatial filters

positioned to receive said image from said scanning means for detectings traight-line contour elements in the welf and warp directions of the article to produce first and second electrical signals representing respective transformed images of the scanned surface of the article; processing means connected to said transforming means for processing said first and second signals by comprising them to characteristic grey value thresholds to thereby produce a fault signal; and means connected to receive said fault signal for producing a black-white image indicating faults in said article.

Compl. specn. 15 pages. Drgs. 6 sheets.

CLASS : 136-E. 162613

Int. Cl. : C 08 f 47/00.

A METHOD OF MANUFACTURING A FLAME-RESISTANT EXPANDED PLASTICS MATERIAL.

Applicant : DIXON INTERNATIONAL LIMITED, PAMPISFORD, CAMBRIDGE, CB2 4HG, ENGLAND.

Inventor : 1. TESSA MALCOLM-BROWN.

Application No. 1459/Cal/83 filed November 28, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A method of manufacturing a flame-resistant expanded plastics material, comprising; subjecting expandable beads or granules of styrene polymer to pre-expansion; and subsequently moulding and expanding the pre-expanded beads or granules; wherein prior to the moulding and expanding the beads or granules are mixed with :

a total of 5 to 30 parts by volume, per 100 parts by volume of the pre-expanded beads or granules, of

(a) an organic polyhydroxy compound which decomposes to yield a carbonaceous char on heating;

(b) a compound which promotes the decomposition of the polyhydroxy compound;

(c) dicyandiamide, guanidine or urea or other spumific, not being any of compounds (a), (b) and (d); and

(d) an amino resin as binder; or a product formed by hardening of 5 to 30 parts by volume, per 100 parts by volume of the pre-expanded beads or granules, of a mixture of compounds (a) to (d) and water.

Compl. specn. 10 pages. Drg. Nil.

CLASS : 39-E+O. 162614

Int. Cl. : C 01 b 33/06.

AN IMPROVED PROCESS FOR MANUFACTURE OF CALCIUM SILICIDE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA.

Inventor : 1. DR. VISHWANATH ANANT ALTEKAR.

Application No. 84/Cal/84 filed February 3, 1984.

Complete specification left on 1st May, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2—117 GI/87

3 Claims

An improved process for the manufacture of calcium silicide which comprises mixing homogeneously fine powders of calcined lime, quartzite and a reductant, agglomerating the mixture in the form of brequettes or pellets using organic or inorganic binder and smelting the thus agglomerated briquettes or pellets in an electro thermal smelting furnace.

Provisional specn. 3 pages. Drg. Nil.

Compl. specn. 5 pages. Drg. Nil.

CLASS : 69-B. 162615

Int. Cl. : H 01 h 81/00.

AN OVERLOAD CONDUCTOR MAGAZINE HAVING HEAT PROTECTING FOR A TWO-WAY OR A BUTTON CONDUCTOR.

Applicant : KRONE GMBH., QF GOERZALIE 311, 1000 BERLIN 37, WEST GERMANY.

Inventors : 1. PETER ACHTNIG, 2. GUNTER HEGNER.

Application No. 155/Cal/84 filed March 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An overload conductor magazine which includes a two-way conductor, wherein means are provided for heat protection thereof, said magazine being adapted to be plugged into terminal blocks loaded with solderless, non-screwed and crimping-free terminals, characterized in

that for each spark gap between the poles (16a and 16b or 16b and 16c) of the two-way conductor (13) there is provided an S-shaped clip spring (1) adapted to be plugged into said overload conductor magazine (3), said S-shaped clip spring (1) being provided an one leg (1a) thereof with a solder preform (1) and a switch contact (11) and on the other leg (1b) thereof with a latching means (12).

Compl. specn. 10 pages. Drg. 6 sheets.

CLASS : 32-A1. 162616

Int. Cl. : C 09 b 29/00, 45/04.

A PROCESS FOR PREPARING OF WATER-SOLUBLE AZO COMPOUNDS.

Applicant : HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. FRITZ MEININGER, 2. GUNTHER SCHWAIGER, 3. HANS HELMUT STEUERNAGEL.

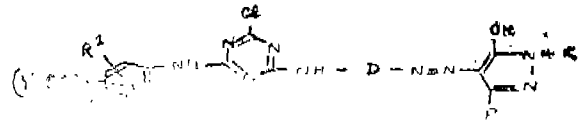
Application No. 728/Cal/85 filed October 14, 1985.

Divisional of Application No. 948/Cal/82 dated 12th August, 1982.

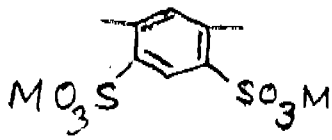
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

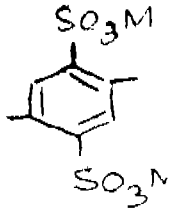
12 Claims

A process for preparing water-solube monoazo compound of the general formula (1) of the accompanying drawings

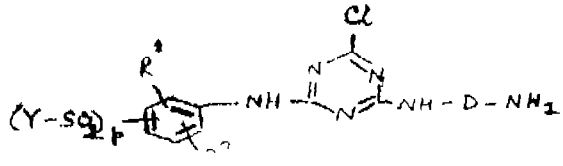


in which D is a group of the formula (2a) or (2b)

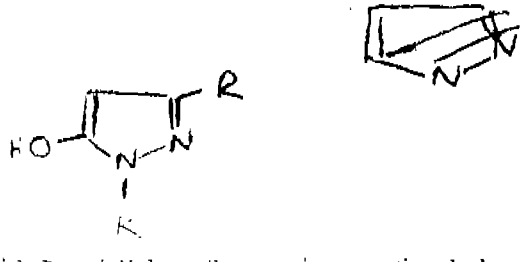




in which M is a hydrogen atom or an equivalent of a monovalent, divalent or trivalent metal, R^1 is a hydrogen atom, a sulfo group, an alkyl group of 1 to 4 C-atoms, an alkoxy group 1 to 4 C-atoms or a chlorine atom, R^2 is a hydrogen atom, a sulfo group, an alkyl group of 1 to 4 C-atoms or an alkoxy group of 1 to 4 C-atoms, R is the methyl group, a carboxy group or a carbalkoxy group of 2 to 5 C-atoms, these formula moieties R, R^1 and R^2 can be identical to or different from one another, K is a phenyl group or naphyl group, either of which can be sustituted by 1, 2 or 3 substitutents from the group consisting of sulfo, carboxy, sulfamoyl, carbamoyl, alkyl of 1 to 4 C-atoms, alkoxy of 1 to 4 C-atoms and chlorine, and optionally by a group of the formula $-SO_2-Z$ in which Z represents the β -hydroxy ethyl group or is a group Y of the meaning given below, Y is the vinyl group or an ethyl group containing a sibstituent in the β-position which can be eliminated as an anion under alkaline conditions, and p reperesents the number zero or 1 but is mandatorily 1 if the formula radical K is not subsituated by the group SO_2 -Y which comprises coupling a diazonium compound of an amine of the formula (3)



in which R^1, R^2, p, D and Y have the meanings mentioned above with a pyrazolone compound of the formula (4)



in which R and K have the meanings mentioned above, and choosing the reaction components in such a way that the resulting azo compound corresponding to the general formula (1) contains at least one group of the formula-SO_2 -Y defined above.

Compl. Specn. 33 pages. Drgs. 17 sheets.

Class 55 B2. 162617.

Int. Cl. H 01 f 15/02.

OIL-FILLED DISTRIBUTION TRANSFORMERS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. RAYMOND EDGAR WIEN, 2. JACK GILBERT HANKS, 3. JOHN FRANCIS COTTON.

Application No. 8/Cal/88 filed January 1, 1988.

Division of Application No. 14 Cal/84 dated 6th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

An oil-filled distribution transformer comprising :

(a) a housing;

(b) electrical inductive apparatus within the housing and having terminals thereon;

(c) a circuit interrupter disposed within the housing and operable between a closed position permitting current flow through the transformer and an open position interrupting flow through the transformer, the circuit interrupter being operable to automatically trip to the open position upon overload current conditions through the transformer;

(d) a handle connected to the circuit breaker for manually operating the circuit breaker between the open and closed positions;

(e) the circuit breaker including a releasable latch arm operable to maintain the circuit breaker in the closed position;

(f) trip means operable upon overload current conditions to initiate release of the latch arm;

(g) a latch lever movable between latched and unlatched positions of the releasable arm and biased in the latched position, the latch lever being the only part operatively connected between the trip means and the releasable arm;

(h) the latch lever having a cam surface for latching and unlatching the releasable arm;

(i) the cam surface includes at least two release edges for the arm; and

(j) means for moving the latch lever laterally of the plane of movement of the arm so as to place one of the release edges in operating position with the arm whereby the rating of the interrupter is changed.

Compl. Specn. 16 pages. Drg. 7 sheets.

Class. 122. 162618.

Int. Cl. B 03 c 3/00, 3/02, 3/68; G 05 f 3/02.

AN APPARATUS FOR OBTAINING A CLEAN GAS FROM SOLID LADEN GAS NAMELY ELECTROSTATIC FILTERS.

Applicant : WALTHER & CIE. AG., OF 5000 KOLN 80, WAITHERSTR. 51 ANGEMELDET WERDEN, WEST GERMANY.

Inventor : 1. WERNER FRANK.

Application No. 157/Cal/84 filed March 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

Apparatus for obtaining a clean gas from a solid laden gas viz electrostatic filters comprising at least one first high tension electrostatic filter having at least one pair of spaced-apart first and second electrodes of opposite polarity, said electrodes being in contact with the medium in said path; a miniature second electrostatic filter having spaced-apart first and second electrodes whose mutual distance is a fraction of the mutual distance of the electrodes of said first filter and which are located in said path; means for applying to one

electrode of said second filter a potential at least closely approximating the breakdown potential at which the electric field of the second filter collapses; and control means for applying to one electrode of said first filter a potential at least closely approximating but remaining below the breakdown potential for the first filter, including means for monitoring the potential which is applied to the one electrode of said second filter.

Compl. Specn. 1 pages. Drgs. 2 sheets.

Class. 72-B. 162619.

Int. Cl. C 06 b 33/00.

MICROKNIT COMPOSITE EXPOSIVES.

Applicants : (1) IRECO INCORPORATED, OF ELEVENTH FLOOR, CROSSROADS TOWER, SALT LAKE CITY, UTAH 84144, U.S.A.; (2) MEGABAR EXPLOSIVES CORPORATION, OF 2200 WEST 4100 NORTH, OGDEN, UT 84404, UNITED STATES OF AMERICA.

Inventors : 1. HARVEY A. JESSOP, 2. M. TAYLOR ABEGG, 3. JOHN A. PETERSON, 4. JAY W. BUTLER, 5. RONALD F. MCCORMICK.

Application No. 51/Cal/85 filed January 28, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

40 Claims.

A solid, microcrystalline explosive, propellant or gas generator, comprising in combination :

an essentially anhydrous mixture of 0.5% to 25% by weight of surfactant(s), 1% to 25% by weight of hydrocarbon fuel(s) or metallic fuel and 40% to 85% by weight of inorganic oxidizer salt(s). including at least one such salt which is not a nitrate salt, involving the intimate mixing or dissolving of ingredients while they are in the molten state, the intimately mixed fluid having the property of permitting the molten salts(s) to be supercooled before the occurrence of crystal nucleation and revision from the fluid state and wherein moisture present is water of hydration or because of the hydroscopic nature of said oxidizer salts and is limited to 3% maximum by weight of the composition.

Compl. Specn. 26 pages. Drg. Nil.

Class. 171. 162620.

Int. Cl. G 02 b 1/04.

A MOLD ASSEMBLY FOR MAKING A MOLDED POLYMERIC ARTICLE AND A METHOD FOR MAKING SAID ARTICLES USING SAID MOLD ASSEMBLY.

Applicant : COBURN OPTICAL INDUSTRIES, INC., AT 1701 SOUTH CHEROKEE, MUSKOGEE, OKLAHOMA, UNITED STATES OF AMERICA.

Inventors : 1. DONALD H. PETECEN, 2. ROBERT —SINCLAIR.

Application No. 76/Cal/85 filed February 2, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A mold assembly, for making a molded polymeric article having a predetermined shape, comprising

(i) a quantity of a liquid polymerizable monomer mixture sufficient to form the desired article on polymerization thereof;

(ii) a thin envelope completely encasing the mixture, the envelope being characterized in that it is flexible at room temperature, essentially impermeable to oxygen, and chemically inert to said mixture, and in that its surface in contact with the monomer is essentially dust-free and conforms to within an RMS of about 1 micro-inch; and

(iii) mold means, including a pair of mold halves disposed on opposing sides of the envelope, for forcing the envelope and its contents to conform to the inner surfaces of both mold halves, provided that the interface between the mold halves and the envelope is essentially dust-free.

Compl. Specn. 14 pages. Drg. Nil.

Class . 136 C. 162621.

Int. Class : B29f 3/02 & B29b 1/00.

"EXTRUDER MIXER".

Applicant : RUBBER AND PLASTICS RESEARCH ASSOCIATION OF GREAT BRITAIN A BRITISH COMPANY, OF SHAWBURY, SHREWSBURY, SHROPSHIRE, SY4, 4NR, ENGLAND.

Inventor : GEORGE MARTIN GALE.

Application for patent No. 235/Del/82 filed on 22nd March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims.

An extruder mixer comprising a hollow cylindrical stator member, a cylindrical rotor member journalled for rotation within the stator, the facing cylindrical surfaces of the rotor and the stator carrying respective pluralities of parallel, circumferentially extending rows of cavities characterised in that the cavities are disposed with :

(a) the cavities in adjacent rows on the stator circumferentially offset;

(b) the cavities in adjacent rows on the rotor circumferentially offset; and

(c) the rows of cavities on the stator and rotor axially offset.

Compl. Specn. 9 pages. Drgs. 2 sheets.

CLASS : 32 F^1 &$_2$ (b) & 55 F_4. 162622

Int. Cl. : C 07d-51/00.

"A PROCESS FOR THE SYNTHESIS OF PHENOXYMETHYL-1-[4-(O-METHOXY-PHENYL)- PIPERAZINO CARBONYL] -CYCLOPROPANES."

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTERATION OF SOCIETIES ACT (ACT XXI OF 1960).

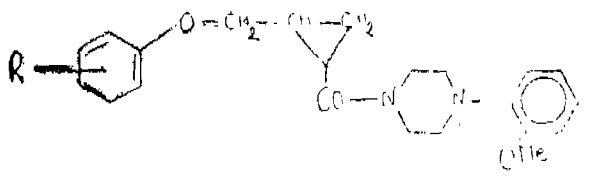
Inventor : RAVISH CHANDRA TRIPATHI, RAM CHANDRA GUPTA, KARUNMOY KAR, BHOLA NATH DHAWAN, RIKAB CHAND SRIMALS AND NITYA ANAND.

Application for Patent No. 805/Del/1983 filed on 1st December, 1983.

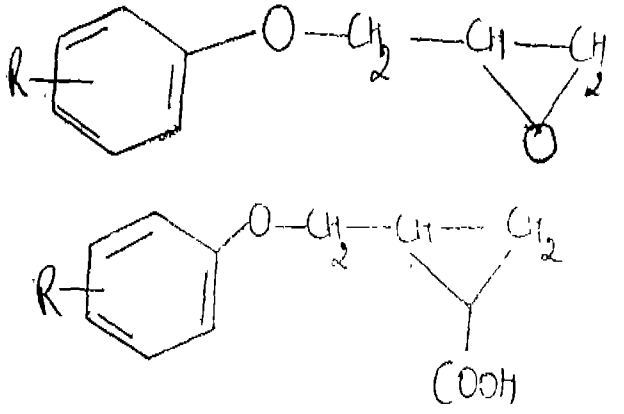
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

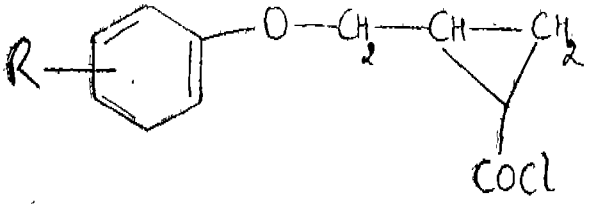
A process for the synthesis of phenoxy-methyl-1-[4-(O-methoxyphenyl)-piperazino carbonyl]-cyclopropanes of general formula (IV)



comprising condensing 1, 2-epoxy-3-phenoxy propane (I) kith triphenyl carboethoxymethylene phosphorane and subjecting the reaction product to alkaline hydrolysis to form phenoxymethylcyclopropane-1-carboxylic acid (II), reacting the acid of formula (II)



with thionyl chloride to form phenoxymethcyclopropane-1-carbonyl chloride (III) and then subjecting the same (III) to condensation with 4-O-methoxy-phenyl-piperazene to form the desired compounds of formula (IV)



wherein R is hydrogen or an one or more substituents in any position of the phenyl ring like a halogen, methyl or methoxy radical and the substituents may be same or different.

Compl. specn. 7 pages. Drg. 1 sheet.

CLASS : 32 F1 & 2 (b). 162623

Int. Cl. : C 07 d 41/00.

"A PROCESS FOR THE PREPARATION OF 1, 2, 3, 4-TETRAHYDRO-4-QUINOLINONES".

Applicant : RHONE-POULENC SANTE, A FRENCH BODY CORPORATE OF "LES MIROIRS", 18 AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

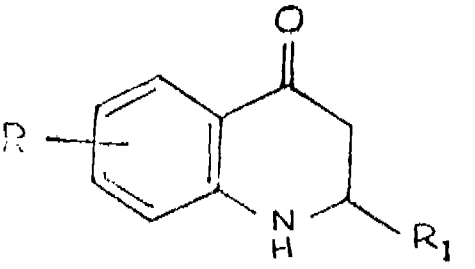
Inventors : MICHEL ARNAUD & JEAN PIERRE CORBET.

Application for Patent No. 739/Del/84 filed on 20th September 1984.

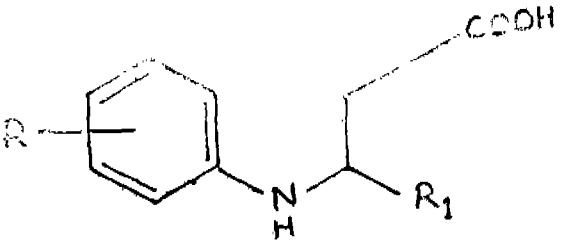
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

8 Claims

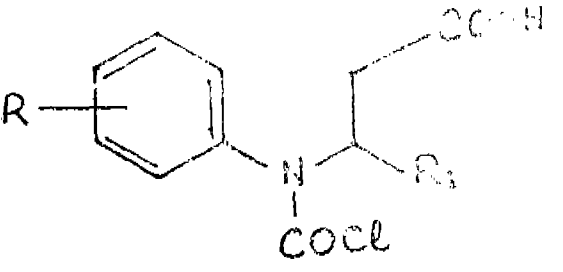
A process for the preparation of a 1, 2, 3, 4-tetrahydro-4-quinolinone of the general formula shown in Figure (I)



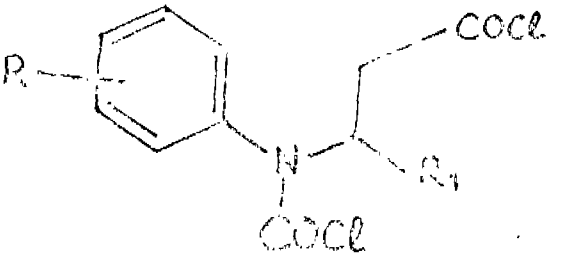
in which R denotes a hydrogen atom, a hydrogen atom, a linear or branched alkyl radical of 1 to 4 carbon atoms, and R1 denotes a hydrogen atoms or a linear or branched alkyl radical of 1 to 4 carbon atoms, which comprises treating a 3-anilinopropionic acid of the general formula shown in Figure (II)



in which R and R1 are as defined above, with phosgene to product a product of the general formula shown in figure (III)

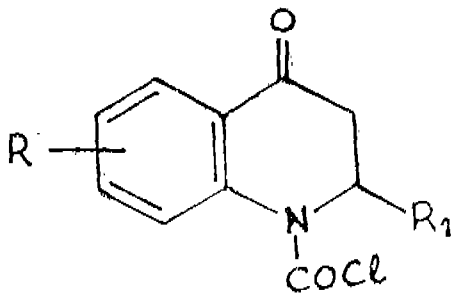


in which R and R1 are as define above, reacting the said product with phosgene in the presence of dimethylformamide, to produce an acid chloride of the general formula shown in Figure (IV)



in which R and R1 are as defined above, treating the latter with a lewis acid in an aprotic organic solvent or with a

strong acid to provide a product of the general formula shown in figure (V)



in which R and R1 are as define above, and hydrolysing the latter in the presence of an inorganic base to provide the 1, 2, 3, 4-tetrahydro-4-quinolinone.

Compl. specn. 23 pages. Drg. 1 sheet.

CLASS : 176 F. 162624

Int. Cl. : F 28 f 3/00.

A DEVICE FOR PROTECTING STEEL SHEETS AGAINST EROSION CORROSION ON CONTACT WITH STEAM.

Applicant : STEIN INDUSTRIE, A FRENCH BODY CORPORATE, OF 19-21, AVENUE MORANE SAULNIER 78140 VELIZY-VILLACOUBLAY, FRANCE.

Inventors : JEEN-JACQUES MARSAULT, JACQUES MARIOLIET, FRANCOIS CARPENTIER.

Application for Patent No. 90/Del/85 filed on dated 5th Feb. 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A device for protecting steel sheets against erosion-corrosion on contact with steam which comprises a plurality of "tiles" in the form of rectangular members of stainless metal mounted in sliding relation on a steel sheet to be protected said tiles being screwed to said steel sheet by means of screws engaging studs welded on said steel sheet, characterised in that the longitudinal edges of each tile are provided with an upstanding rim from which projects an outwardly extending flange, said screws passing through said flanges and engaging said studs perpendicularly to said steel sheet.

Compl. Specn. 7 pages. Drgs. 3 sheets.

CLASS : 32 C. 162625
83 A1
1E.

Int. Cl. : C 07 g 7/00
A 23 j 1/12
C 131 1/00.

PROCESS FOR THE PREPARATION OF A GALACTOMANNAN RICH THICKENER FROM POLYSACCHARIDE-CONTAINING ENDOSPERM FLOUR.

Applicant : MEYHALL CHEMICAL AG., A SWISS JOINT-STOCK COMPANY, OF SONNENWIESENSTRASSE 18, CH-8280 KREUZLINGEN, SWITZERLAND.

Inventor : WILLEM COR WIELINGA.

Application for Patent No. 127/Del/85 filed on 15th Feb. 85.

Convention date June 29, 1984/16619/1984/U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A process for the preparation of a galactomannan rich thickener from polysaccharids-containing endorsperm flour which thickener has a higher viscosity in aqueous solution than the starting product, characterized in that the endosperm flour of a legumes suchas herein described is separated into a fraction rich in polysaccharide but poor in protein and a fraction poor in polysaccharide but rich in protein by suspending the flour into a solvent or a mixture of solvents such as herein described having a density between the densities of the two fractions, separating in any known manner the fractions and liberating in any known manner the fraction rich in polysaccharide from the solvent or mixture of solvents.

Compl. Specn. 23 pages.

CLASS : 32F4&5 (b). 162626

Int. Cl. : C07c 27/00.

PROCESS FOR MAKING 2-OXINDOLE-1-CARBOXAMIDES.

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

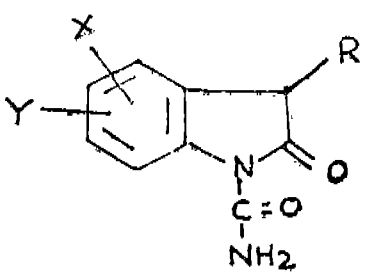
Inventor : THOMAS CHARLES CRAWFORD.

Application for Patent No. 155/Del/85 filed on 26th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A process for making a compound of the formula III



X is hydrogen, fluoro, chloro, bromo, alkyl having 1 to 4 carbons, cycloalkyl having 3 to 7 carbons, alkylthio having 1 to 4 carbons, trifluoromethyl, alkylsulfinyl having 1 to 4 carbons, alkylsulfonyl having 1 to 4 carbons, nitro, phenyl, alkanoyl having 2 to 4 carbons, benzoyl, thenoyl, alkanamido having 2 to 4 carbons, benzamido or N, N-dialkylsulfamoyl having 1 to 3 carbons in each of said alkyls; and Y is hydrogen, fluoro, chloro, bromo, alkyl having 1 to 4 carbons, cycloalkyl having 3 to 7 carbons, alkoxy having 1 to 4 carbons, alkylthio having 1 to 4 carbons or trifluoromethyl;

or X and Y when taken together are a 4, 5-, 5, 6- or 6, 7- methylenedioxy group or a 4, 5-, 5, 6- or 6, 7-ethylenedioxy group :

or x and y when taken together and when attached to adjacent carbon atoms, from a divalent radical Z, wherein Z is selected from the radicals of the formulae V, VI, VII, VIII and IX

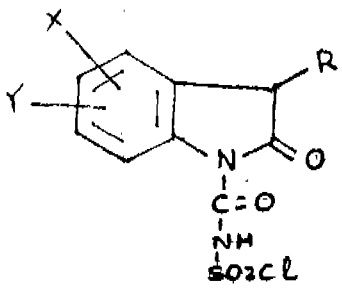
Wherein W is oxygen or sulfur;

and R is hydrogen or -CO-R^1, wherein

R^1 is alkyl having 1 to 6 carbons, cycloalkyl having 3 to 7 carbons, cycloalkenyl having 4 to 7 carbons, phenyl, substituted phenyl, phenylalkyl having 1 to 3 carbons in said alkyl, (substituted phenyl) alkyl having 1 to 3 carbons in said alkyl, phenoxyalkyl having 1 to 3 carbons in said alkyl, (substituted phenoxy) alkyl having 1 to 3 carbons in said alkyl, (thiophenoxy) alkyl having 1 to 3 carbons in said alkyl, naphthyl, bicyclo [2.2.1] heptan-2-yl, bicyclo [2.2.1]-hept-5-en-2-yl or $-(CH_2)_m$-Q-R^0;

wherein the substituent on said substituted phenyl, said (substituted phenyl) alkyl and said (substituted phenoxy) alkyl is fluoro, chloro, bromo, alkyl having 1 to 4 carbons, alkoxy having 1 to 4 carbons or trifluoromethyl; n is zero, 1 or 2; Q is a divalent radical derived from a compound selected from furan, thiophene, pyrrole, pyrazole, imidazole, thiazole, isothiazole, oxazole, isoxazole, 1, 2, 3,-thindiazole, 1, 3, 4-thiadiazole, 1, 2, 5-thiadiazole, tetrahydrofuran, tetrahydrothiophene, tetrahydropyran, tetrahydrothiopyran, pyridine, pyrimidine, pyrazine, benzo [b] furan of benzo [b] thiophene; and R^0 is hydrogen or alkyl having 1 to 3 carbons;

which comprises hydrolyzing in any known manner a compound of the formula II



(Complete specification 58 pages Drawing 3 sheets).

CLASS : 194 C3. 162627

Int. Cl. : H01 j 19/74.

LOW POWER WATER COOLED KLYSTRON VALVES.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : SUBRATA KUMAR DE.

Application for Patent No. 189/Del/85 filed on March 8, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A low power water-cooled klystron valve comprising a klystron valve surrounded on its external cylindrical surface with two semi-cylindrical hollow blocks (2) joined together so as to be in tight contact with the valve, the two blocks each having openings at the top and the bottom, the opening at the top of each block being connected through a pipe, the other opening at the bottom of one of the blocks being connected to a water source and the opening at the bottom of the other block being the outlet for the water, the outlet being connected to a T section water jet system (6), the inlet of the system being connected to the overhead water reservoir ensure the flow of the water in a cycle to cool the valve.

(Complete specification 6 pages Drawing Sheet 1)

CLASS : 159 M + J. 162628

Int. Cl. : B611 5/00 & 13/04.

LAST VEHICLE CHECK DEVICE.

Applicant & Inventor : LALGUDI RAMARATHNAM PARTHASARATHY & NARENDRA KUMAR GOEL, BOTH INDIAN NATIONALS, OF RESEARCH DESIGNS AND STANDARDS ORGANISATION, GOVERNMENT OF INDIA, MINISTRY OF RAILWAYS, MANAK NAGAR, LUCKNOW-226 011, U. P., INDIA.

Application for Patent No. 130/Del/85 filed on 18th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A last vehicle check device for railway trains comprising a passive mobile equipment provided on the last vehicle of a railway train and an active track circuit adapted to receive a signal from said passive mobile equipment, the mobile equipment comprising a passive tuned coil encapsulated within a casing of a fibre reinforced plastics material and a rod for suspending the said equipment from the coupling of the last vehicle, said active track equipment comprising a boot strap circuit, connected a schmidt trigger circuit through a first transformer, said schmidt trigger circuit connected to a fast acting electronic stick circuit through a second transformer, a transmitter coil and a receiver coil inductively coupled together so that an operating signal is induced in the transmitter coil by the receiver coil by the passive mobile equipment only while the rear end of the last vehicle passes over the active track equipment, and an indication panel.

(Complete specification 15 pages Drawing 4 sheets).

CLASS : 184 162629

Int. Cl. : B65d 1/00.

A STORAGE PLANT FOR STORING CHEMICAL WASTE MATERIAL OR THE LIKE SOLID SUBSTANCES IN ROCK FORMATIONS.

Applicant : BOLIDEN AKTIEBOLAG, A SWEDISH COMPANY, OF STUREGATAN 22, BOX 5508, S-114 85 STOCKHOLM, SWEDEN.

Inventors : STEN GUSTAV ADOLF BERGMAN, KARL IVAR, SAGEFORS, BENGTAKE AKESSON.

Application for Patent No. 150/Del/85 filed on February 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110 005.

4 Claims

A storage plant for storing chemical waste material or the like solid substances in rock formations, comprising at least one first cavity defined by solid material such as herein described, which cavity forms a storage space for the waste material an outer cavity which is formed in said rock formation externally of said first cavity and which is spaced from and surrounds said first cavity on all sides thereof, said outer cavity being filled with a plastically deformable material; and a tunnel located helically around said outer cavity, from which helical tunnel access can be had to the outer and inner cavities, via entry tunnels, during construction of the plant, and to permit monitoring of the inner parts of said plant, characterised in that located around said plant, is a large number of substantially vertical drill holes which form at least one outer cage around said plant, said cage being effective to conduct water arriving at and departing from said plant away therefrom.

(Complete Specification 19 pages. Drawing 8 sheets)

CLASS : 189. 162630

Int. Class : A61k 7/00

A DENTIFRICE COMPOSITION.

Applicant : COLGATE PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U. S. A., OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, U. S. A.

Inventor : DIANA KALLIOPE KIOZPEOPLOU.

Application for Patent No. 753/Del/85 filed on 13th September, 1985.

Divisional to Patent application No. 437/Del/82 filed on 8th June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A dentifrice composition comprising 20-80% by weight of a liquid humectant vehicle, 5-50% by weight of a siliceous polishing material such as herein described 0.05-5% by weight of resinous poly (ethylene oxide), said dentifrice containing flocculated particles formed by said siliceous polishing material in the presence of said poly (ethylene oxide).

(Complete specification 35 pages Drawing 1 sheet)

CLASS : 208 162631

Int. Cl. : B 43 k--21/22.

LEAD PROPELLING MECHANISM FOR A MECHANICAL PENCIL.

Applicant : KOTOBUKI & CO., LTD., 13, NISHI KURISU-CHO, SHICHIKU, KITAKU, KYOTO-SHI, KYOTO, JAPAN, A JAPANESE COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF JAPAN.

Inventor : HIDEHEI KAGEYAMA.

Application No. 209/Bom/1985 filed on 8th August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

8 Claims

A lead propelling mechanism for a mechanical pencil comprising :

a lead chuck having a front end defining its head and a rear end having an annular shoulder on its outer peripheral surface;

a ring fitted loosely about said chuck for tightening said head thereof;

a sleeve having a front end contacting said ring; and

an elastic member having a front end bearing on said front end of said sleeve and a rear end held by said shoulder, said rear end of said elastic member being adapted to bear against an adjacent end of a lead holding tube to urge said ring to tighten said head.

Complete specification 10 pages Drawing 2 sheets.

CLASS : 170 B. 162632

Int. Cl. : C 11 d—3/20.

DETERGENT COMPOSITIONS.

Applicant : HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventors : ROBERT JAMES EDWARDS, (2) PAUL DAIVID HARDMAN (3) MELVIN SCOTT, (4) CAREY JAMES WALSH (5) PETER WINTERBOTHAM.

Application No. 125/Bom/1985 filed on May 9, 1985.

U. K. Convention Priority date May 11, 1984.
October 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

24 Claims

A homogeneous foaming liquid detergent composition consisting essentially of

(a) from 60 to 80% by weight of an active detergent system comprising

(i) a water-soluble salt of a C_8-C_{12} dialkyl ester of sulphosuccinic acid in which the alkyl groups may be the same or different,

(ii) a C_{10}-C_{18} alkyl ether sulphate, the ratio of (i) to (ii) being from 4 : 1 to 0.5 : 1, and

(iii) optionally a nonionic detergent, in an amount not exceeding 15% by weight of the whole composition,

(b) from 5 to 20% by weight of a C_2-C_3 mono- or polyhydric alcohol,

(c) optionally (i) from 0 to 12% by weight of urea, and (ii) from 0.003 to 2.0% by weight of a polymer such as herein described and

(d) water and minor ingredients to 100%, the ratio of alcohol (b) to water exceeding a critical value r, which lies between 0.45 to 0.6, dependent on the total active detergent concentration, below which separation into two phases occurs.

Compl. Specn. 42 pages. Drgs. Nil.

CLASS : 170B 162633

Int. Cl. : C 11 d—3/20.

HOMOGENEOUS FOAMING DETERGENT COMPOSITION IN GEL FORM.

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventor : PETER WINTERBOTHAM.

Application No. 126/Bom/1985 filed on 9th May, 1985. U.K. Convention priority date 11th May, 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1973) Patent Office Branch, Bombay-13.

19 Claims

A homogeneous foaming liquid detergent composition in gel form consisting essentially of

(a) from 60 to 80% by weight of an active detergent system consisting essentially of

(i) a water soluble salt of a C_3-C_{12} dialkyl ester of sulphosuccinic acid in which the alkyl groups may be the same or different,

(ii) a C_{10}-C_{18} alkyl ether sulphate, the ratio of (i) to (ii) being from 4 : 1 to 0.5 : 1, and

(iii) optionally a nonionic detergent, in an amount insufficient to cause instability of the composition.

(b) from 2 to 10.5% by weight of a C_2-C_3 mono-or polyhydric alcohol, and

(c) water and minor ingredients to 100%,

the ratio of alcohol (b) to water being below a critical value q which lies between 0.25 and 0.41, dependent on the total active detergent concentration, above which separation into two phases occurs.

Compl. Specn. 34 pages. Drgs. Nil.

CLASS : 89. 162634

Int. Cl. : GO 1 L-5/06.

SPRING LOADED BELT TENSION TESTER.

Applicant & Inventor : GIRIDHARI BALRAM RADHAKRISHNANI, 24B, SAGAR SANGEET, 58 COLABA ROAD, BOMBAY-400 005, MAHARASHTRA, INDIA.

Application No. 161/Bom/85 filed on 27th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

2 Claims

A spring loaded belt tension tester comprising a tubular body open at both ends, a stud and a spring retainer provided with narrow threaded necks, the lower end of body is closed by means of a stud for fixing one end of a compression spring housed inside the body and at the upper end a tubular top cap is slidably mounted over the body inside which the other end of the said spring is fixed by means of a spring retainer and the spring retainer is fixed inside the top cap at its top, the outside of the said body is graduated at its upper side with a scale showing the belt tension in units either in kgs or in Newton or in both and the lower side of the body is graduated with a scale showing belt slackness in a required linear scale in mm or inch and two index rings are slidably mounted over the body, one to be pushed downwards by the edge of the top cap over the belt tension scale and the other simultaneously to be pushed upwards over the slackness scale by the adjacent belt or by a straight edge for multiple and single belt drives respectively.

Compl. Specn 6 pages. Drgs. 2 sheets

CLASS : 89 Gr. [XLI (6)]. 162635

Int. Cl. : G 01 N 3/42.

AN IMPROVED PRESS AND READ TYPE PORTABLE METAL HARDNESS TESTER.

Applicant & Inventor : GIRIDHARI BALRAM RADHAKRISHNANI, AN INDIAN, 24B, SAGAR SANGEET, 58 CALOBA ROAD, BOMBAY-400 005, MAHARASHTRA, INDIA.

Application No. 162/Bom/1985 filed June 27, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

4 Claims

A press and read type portable metal hardness tester comprising an indentor holder, an indentor, a ball, springs, an interchangeable indentor tip, an anvil, a body and a pair of hand pads for firmly pressing the indentor tip on the specimen characterised by that the indicating system mounted in the instrument head consists of a plunger housed inside a recess in the head, pressed on one side by the ball from below and which is in contact on the other side with one end of a rocker arm, pivotally mounted in another recess in the head oscillating in vertical plane and a horizontally mounted spindle also situated in the instrument head being axially slidable in the longitudinal direction is fitted with a lug which is pushed by the other end of the rocker arm, the spindle is provided with a toothed rack which is in mesh with a pinions amplifying the rotational movement of a pointer attached to the last driven pinion and the said pointer rotates over a dial having graduated hardness scale, the horizontal spindle being spring loaded for return of the spindle in normal position.

Compl. Specn. 9 pages. Drgs. 3 sheets.

CLASS : 128 I. 162636

Int. Cl. : A 61 h-31/00, A 61 m-16/00.

A RESUSCITATOR

Applicant & Inventor : DR. WASUDEO PANDURANG CHITALE OF TATA HOUSING COLONY, BUILDING NO. 2/11, MATUNGA LABOUR CAMP, BOMBAY-400 019, MAHARASHTRA, INDIA.

Application No. 271/Bom/1985 filed on 4th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

3 Claims

A Resuscitator comprising of a tube having at its one end a mouth mask with curved edge to be fitted snuggly over the patient's mouth, a unidirectional valve within the said tube permitting flow of air towards the mask, an outlet for exhaled air in between the said unidirectional valve and the said mask, a pair of elbow couplings with a connecting tube provided at the other end of the said tube so as to adjust the height and the angle of the blowing end, and a nasal pinch comprising of a spring with pair of circular ends so as to close the nose of the victim thus enabling to blow air into the victim's lungs through his mouth.

Compl. Specn. 10 pages. Drgs. 2 sheets

CLASS : 170B + D. 162637

Int. Cl. : C11d-1/28.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF BUILT DETERGENT BARS.

Applicants : HINDUSTAN LEVER LIMITED, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913 AND HAVING ITS REGISTERED OFFICE AT HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) DEVADATTA SHIVAJI SANKHOLKAR (2) GANAPATHY SUNDARAM VENKATA RAMANAN.

Application No. 236/Bom/1985 filed on September 2, 1985.

Complete after prov. left on 17th September, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

13 Claims

An improved process for the manufacture of built detergent bars having detergent active material and also conventional additives, said active material consisting essentially of fatty acid ester sulfonates obtained by neutralisation of fatty acid ester sulphonic acids and optionally additional detergent active material, the improvement comprising subjecting the fatty acid ester sulphonic acids and optionally other sulphonic acids to the step of neutralisation in the mixer with stoichiometric amount of neutralisation agent selected from sodium carbonate, potassium or ammonium carbonate so as to restrict the hydrolysis of fatty acid ester sulfonate to a minimum, adding conventional ingredients such as Talc, STPP, bleaching agent before, during and/or after the step of neutralisation and adding to the reaction mass additional quantity of alkali selected from carbonic or silicate and other conventional ingredients such as colour, perfume, optical whitening agents, SCMC and processing the mass by the conventional process for bar making such as homogenizing, plodding.

Compl. Specn. 18 pages. Drg. Nil.

Provl. Specn. 9 pages. Drg. Nil.

CLASS : 35 B+C. 162638

Int. Cl. : C 04 B-7/00.

A METHD OF MANUFACTURING HYDRAULIC BINDER.

Applicants : THE ASSOCIATED CEMENT COMPANIES' LIMITED, AN INDIAN COMPANY DULY REGISTERED AND INCORPORATED UNDER COMPANIES' ACT AND HAVING ITS REGISTERED OFFICE AT :— CEMENT HOUSE, 121, MAHARSHI KARVE ROAD, BOMBAY-400 020, MAHARASHTRA. INDIA.

Inventors : (1) ANJAN KUMAR CHATTERJEE, (2) PALLASSANA SWAMINATHA PARMESWARAN, (3) ANIL SHANKAR HEBLE, (4) GURUNATH ANANT MUDBHATKAL AND (5) BALLAMBHAT VINAYAK BALAKRISHNA PAI.

Application No. 166/Bom/1986 filed on Jun. 4, 1986.

Complete after provisional left on Jan. 2, 1987.

Appropriate Office for opposition proceedins (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

15 Claims

A method of manufacturing hydraulic binder comprising :

(i) 45 to 65 parts by weight of any lime bearing materials;

(ii) 10 to 25 parts by weight of any alumina bearing materials;

(iii) 10 to 25 parts by weight of any high alumina clay or silica rich alumina clay and the like;

(iv) 10 to 40 parts by weight of sulphate bearing materials; and

(v) 0.5 to 1.0 parts by weight of plasticizers of the type herein described, consits of following steps :

(a) crushing and grinding either separately or together lime bearing materials, alumina bearing materials, high alumina clay and sulphate bearing materials such as herein described in a ball mill to form a homogenous blended admixture;

(b) nodulizing with water as binder the blend of step (a) in a pan nodulizer or briquetting or extruding in known manner to form nodules/briquettes extrudants of desired shape and size and oven heated electrically/heated by gas or any other heating means to remove moisture therefrom;

(c) sintering the oven dried product of step (b) in a rotary kiln or electric furnace of known type at a temperature varying from 1100° C. to 1300° C. and allowing said sintered product to cool down to room or ambient temperature; and

(d) crushing said sintered product of step (c) in a crusher to desired particle size and then pulverizing in a ball mill said crushed particles with the addition of remaining sulphate bearing materials and plasticizers in quantities stated herein and pulverized to a fineness of 3000 to 5000 Cm^2/gm.

Compl. specn. 16 pages. Drg. Nil.

Prov. specn. 7 pages. Drg. Nil.

CLASS : 32 F_3 [IX(1)], $55D_2$ [XIX(1)]. 162639

Int. Cl. : C 07-307/32.

A PROCESS FOR THE PREPARATION OF 5-(2'-2' BICHLOROETHENLY) DIHDRO-4, 4-DIMETHYL-2-(3H)-FURANDNE.

Applicant : ALCHEMIE RESEARCH CENTRE, AN INDIAN COMPANY, OF 19 WALCHAND HIRACHAND MARG, CRESCENT HOUSE, BOMBAY-400 038, MAHARASHTRA, INDIA.

Inventors : (1) DR. HANAMANTHA SHANKARSA BEVINAKATTI, (2) DR. ARUN KANTI MANDAL, (3) MR. RAVINDRANATH VISHNU NEWADKAR, AND (4) MR. NITIN YASHWANT SAPRE.

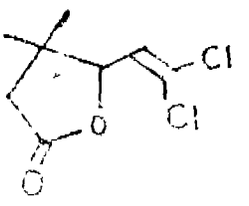
Patent Application No. 180/Bom/1986 fled on 1st July, 1986.

Complete after provisional left on 23rd September, 1987.

Appropriate Office for opposition proceedins (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

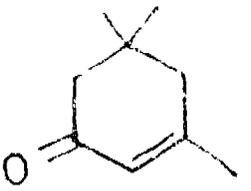
10 Claims

A process for the preparation of 5-(2', 2'-dischioroethenyl) dihydro-4, 4-dimethyl-2-(3H)-furanone of the formula I



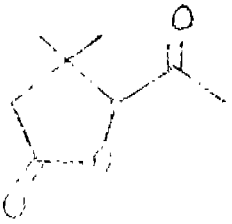
Formula I

said process comprises oxidising isophorone of the formula X



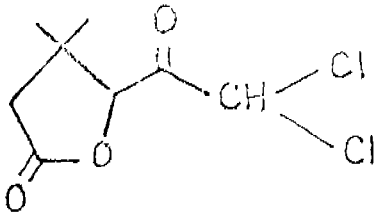
Formula X

with an oxident such as herein described in a solvent such as herein described at 0-70°C to form 5-acetyl-dihydro-4, 4-dimethyl-2-(3H)-furenone of the formula XI



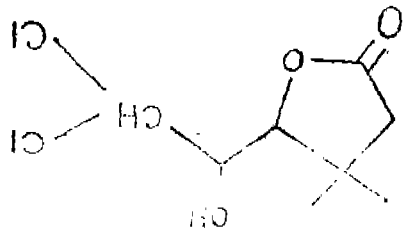
Formula XI

and recovering the compound of the formula XI from the respective reaction mixture in known manner; reacting the compound of the formula XI with a halogenating agent such as herein described in the presence of a catalyst such as herein described at 0-100°C to form 5-(dichloroacatyl) dihydro-4, 4-dimethyl-2-(3H)-furanone of the formula XII



Formula XII

and recovering the compound of the formula XII from the respective reaction mixture in known manner; reacting the compound of the formula XII with a reducing agent such as herein described at 0.50° to form 5-(1'-hydroxy-2', 2' dichloroethyl) dihdro-4, 4-dimethyl-2-(3H)-furanone of the formula XIII



Formula XIII

and recovering the compound of the formula XIII from the respective reaction mixture in known manner; and dehdrating the compound of formula XIII with a reagent such as herein described to form the compound of the formula I and recovering the compound of the formula I from the respective reaction mixture in known manner.

Prov. specn. 7 pagese. Drgs. 2 sheets.

Compl. specn. 13 pages. Drg. Nil.

CLASS : 40 B [IV(1)]. 162640

Int. Cl. : C 01 g-53/00, C 07 b-35/02.

PROCESS FOR HYDROGENATION OF UNSATURATED COMPOUNDS USING NICKEL BORIDE-POLYMER N-CIL CATALYST.

Applicant : HINDUSTAN LEVER LIMITED, OF 165/166 BACKBAY RECLAMATION, BOMBAY-20, MAHARASHTRA, INDIA.

Inventors : (1) CORNELIS VAN DIJK AND (2) RUDOLPH OTTO DE JONGH.

Application No. 17/Bom/1987 filed on 20th Jan. 1987.

Division of Application No. 202/Bom/1984 dated 20th Jul. 84.

Appropriate Office for opposition proceedins (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

4 Claims

A process for the hydrofenation unsaturated compounds preferably triglycerides or fatty nitriles which comprises carrying out the hydrogenation in the presence of a finely divided nickel boride catalyst stablized with a linear organic polymer of the type herein described and suspended in a fatty compound of the type herein described.

Compl. specn. 14 pages. Drg. Nil.

OPPOSITION PROCEEDINGS

An Opposition entered by Orissa Cement Limited to the grant of a Patent on application No. 157517 made by Kumadhubi Fireclay and Silica Works Limited as notified on 1st November, 1986 in the Gazette of India, Part III, Section 2 and ordered that Patent application has been refused.

PATENTS SEALED

151998	158865	159280	159341	159433	159851	**159862**
159864	159865	159867	159869	159870	159873	**159899**
159901	159902	159903	159904	159905	159906	**159915**
159916	159922	159924	159929	159930	159932	**159936**
159937	159939	159941	159945	159947	159952	**159953**
160044	160100	160102	160106	160118	160119	**160120**
160121	160124	160125	160130	160132	160134	**160139**
160141	160168	160169	160173	160192	160247	**160248**
160249	160250	160251	160280	160281	160283	**160311**
160347	160348	160358	160402	160415	160419	**160421**
160430	160432	160433	160434	160449	160542	**160551**
160581	160584	160601	160606	160607	160648	**160649**
160655	160656	160707	160708	160751	160758	**160829**
160841	160881	160898	160899	160900.		

RENEWAL FEES PAID

143360	143470	143730	143765	143820	143896	**144078**
144577	144725	145211	145798	146319	146345	**146818**
146903	147343	147520	147675	148664	149279	**149412**
149488	149585	149905	149907	150001	150066	**150116**
150132	150317	150361	150636	150640	150829	**150914**
151394	151423	151430	151470	151583	151653	**151765**
151937	152468	152846	152878	153673	153718	**153907**
153982	153983	154002	154267	154302	154433	**154452**
154497	154785	154908	154910	155394	155430	**155451**
155767	155768	155815	155861	155879	155880	**155917**
155997	156157	156245	156351	156456	156666	**156706**
156708	156898	156926	157072	157216	157353	**157559**
157594	157801	157949	157999	158060	158145	**158258**
158367	158540	158578	158657	158659	158665	**158670**
158691	158692	158711	158712	158958	158960	**158940**
158986	159030	159037	159040	159045	159046	**159048**
159063	159064	159068	159198	159228	159242	**159243**
159290	159291	159323	159386	159389	159390	**159435**
159446	159487	159488	159503	159585	159717	**159742**
160722	160930	160970.				

CESSATION OF PATENTS

141183	141185	141188	141189	141190	141191	141192
141196	141199	141200	141202	141203	141205	141206
141208	141209	141210	141213	141214	141215	141219
141220	141225	141226	141227	141228	141231	141234
141236	141237	141238	141243	141245	141251	141252
141254	141255	141257	141261	141264	141266	141267
141273	141275	141276	141279	141282	141284	141285
286	141287	141288	141289	141290	141291	141293
14 296	141299	141300	141306	141312	141313	141321
141329	141337	141339.				

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 157771 granted to Tai Her Yang for an invention relating to "a system for surveying railway tracks".

The patent ceased on the 13-11-87 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2,dated the 9-4-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature ofthe Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154461 granted to Krishna Iyer Ramani (Deceased) now R. Krishna Moorthy (R. Moorthy) for an invention relating to "Thermal Jar (URN)".

The patent ceased on the 20-5-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 11-7-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155642 granted to Union Carbide Corporation for an invention relating to "Continuous Catalytic Process for producing ethylene homopolymers and copolymers".

The patent ceased on the 23-12-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 6-2-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature ofthe Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 152841 granted to Piloo Dhunjishaw Sidhwa for an invention relating to "an improved monotube hydraulic shock absorber for vehicles."

The patent ceased on the 31-3-87 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 9-4-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interets, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155943 granted to Exxon Research and Engineering Company for an invention relating to "improved solvent recovery process for N-methyl-2-pyrrolidone in hydrocarbon extraction."

The patent ceased on the 9-3-87 due to payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 19-3-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interets, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 156889 granted to The B. F. Goodrich Company for an invention relating to "a process for preparing Chlorinated poly (Vinyl Chloride)".

The patent ceased on the 20-2-87 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 9-4-88.

Any interested person may give notice of opposition to the restoraion by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 18th August, 1988 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature ofthe Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application for restoration of Patent No. 151391 dated the 28th January, 1980 made by Niku Purnachandra on the 28th January, 1987 and notified in the Gazette of India, Part-III, Section 2, dated the 31st October, 1987 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 150971 dated the 19th November, 1979 made by Technico Engineering Industries on the 11th August, 1987 and notified in the Gazette of India, Part-III, Section 2, dated the 12th December, 1987 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 156176 dated the 5th September, 1983 made by Hindustan Brown Boveri Ltd. on the 24th June, 1987 and notified in the Gazette of India, Part-III, Section 2, dated the 31st October, 1987 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 158979. Wajidsons Exports, an Indian Partnership firm, of Prince Road, Wajid Nagar, P. O. Box No. 79, Moradabad-244001, Uttar Pradesh. India. "Container". 29th October, 1987.

Class 1. No. 158988. Meera Metal Industries (a registered Partnership firm) at Mahavir Metal Industries Compound, 2nd floor Opp. R. K. Studio Sion Trombay Road, Chembur, Bombay-400 071, Maharashtra. "Tiffin Carrier". 2nd November, 1987.

Class 1. No. 159131. Babulal Bhogilal & Co., of 15, Bada Mandir, Gaushala, 3rd Bhoiwada, Bombay-400 02 Maharashtra State, India. "Grater Slicer made of Stainless Steel being a Household article". 3rd December, 1987.

Class 1. No. 159200. Electronics Limited, 7th Floor, Atam Ram House, 1, Tolstoy Marg, New Delhi-110001, India, a company incorporated under the Companies Act. "Heat Convector". 28th December, 1987.

Class 3. Nos. 158965 & 158966. Gujarat B. D. Luggage Limited, an Indian Company of Hardik Chamber, 4th Floor, Opp. Parsi Agiari, Sayaji Ganj, Baroda-390005, Gujarat, India. "23rd October, 1987. "Identity tag".

Class 3. No. 158985. Duralium Corporation (India) a registered partenership firm, of G-89 Sarvodayanaga, 1st panjarapole Lane, Bombay-400 004, Maharashtra, India. "Insulated Cup". 2nd November, 1987.

Class 3. Nos. 159196, 159197 & 159185. Bata India Limited, 30, Shakespeare Sarani, Calcutta-700 017, West Bengal, India. "a sole for the footwear". 28tth December, 1987.

Class 3. No. 159209. Lion Pencils Private Limited, (a Company incorporated under Companies Act) at Andrew Nagar, S. V. Road, Dahisar, Bombay-400 068, State of Maharashtra, India. "Pencil", 28th December, 1987.

Class 3. No. 159210. Metachem Private Limited, (a Company existing under the Companies Act) at 1956, of A/3 1st floor, Dadaji Dhakji Building, 56/58 Garbdas Street, Bombay-400 008, State of Maharashtra, India. "Container". 28th December, 1987.

Class 3. No. 159215. Eagle Flask Private Limited, an Indian Company, at Eagle Estate, Talegaon-410 507, District-Pune, Maharashtra, India. "Lunch Box-Cum-Water Bottle". 28th December, 1987.

Class 3. Nos. 159223 & 159224. Femina Pen Industries, 2/1 Nanda Ram Sen Ist Lane, Calcutta-5. West Bengal, India, An Indian Proprietary firm. "Ball Pen". 30th December, 1987.

Extn. of Copyright. Nil.

R. A. ACHARYA,
Controller General of Patents, Designs & Trade Marks.

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